

# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 37] नई दिल्ली, शनिवार, सितम्बर 10, 1977 (भाद्रा 19, 1899)  
No. 37] NEW DELHI, SATURDAY, SEPTEMBER 10, 1977 (BHADRA 19, 1899)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिज़ाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 10th September 1977

#### CORRIGENDA

1

In the Gazette of India, Part III, Section 2, dated 4th June 1977, under the heading "COMPLETE SPECIFICATIONS ACCEPTED".

(1)

In page 491, column 2, line 4, against No. 142118—  
for OUTINORD read CUTINORD

(2)

In page 491, column 2, line 5, against No. 142119—  
for MOUSS ON read MOUSSON

(3)

In page 493, column 1, line 7, against No. 142126—  
for D. E. read D. F.

(4)

In page 495, column 1, line 4, against No. 142135—  
insert EMBEDDING after By

(5)

In page 495, column 1, below line 15. against No. 142136—insert 5 claims

237GI/77

#### AND

In page 495, column 2 below line 2 against No. 142136—  
delete 5 claims.

(6)

In page 497, column 2, line 1, against No. 142146—  
for Class 32A, & F<sub>0</sub> & F<sub>2</sub> read class 32A, & F, & F<sub>2a</sub>

(7)

In page 499, column 2, line 8, against No. 142154—  
for JEEVATARA read JEEVANTARA

(8)

In page 500, column 1, line 7, against No. 142155—  
for 725/Cal/75 read 725/Cal/74

(9)

In page 502, column 1, line 6, against No. 142166—  
for BACKLER read BOCKLER

(10)

In page 502, column 2 line 13, against No. 142167—  
for 3 claims read 2 claims.

2

In the Gazette of India, Part III Section 2, dated 11th June 1977, under the heading "COMPLETE SPECIFICATIONS ACCEPTED".

(765)

(1)

In page 511, column 1, line 2, against No. 142177—  
for Int. Cl.-C04b read Int. Cl. G 04b

(2)

In page 511, column 2, line 3, against No. 142179—  
for A oil pressure read Oil Pressure

(3)

In page 514, column 2, line 1, against class 23 B—  
insert 142192 at right hand corner

AND

line 4, for AMERICA read AMERICAN

line 8, for COLLTER read CALLIER

(4)

In page 514, column 2 line 4, against No. 142193—  
for FULORINATION read FLUORINATION

(5)

In page 515, column 1, line 1, against No. 142194—  
for F<sub>2</sub>b 55D<sub>2</sub>

read F<sub>2</sub>b & 55 D<sub>2</sub>

AND

line 5, for VESICOL read VELSICOL

(6)

In page 518, column 2, line 8, against No. 142207—  
for DIST-23 read DIST-24

(7)

In page 519, column 2, line 2, against No. 142211—  
for 13024 read 13/24

(8)

In page 520, column 2, line 1, against No. 142215—  
for filed 27, 1974 read filed July 27, 1974

(9)

In page 521, column 2, line 1, against class 32F, & 55 E<sub>2</sub>  
insert 142219 at right hand corner

(10)

In page 522, column 2, line 2, against No. 142223—  
for Int. Cl. 1C22c read Int. Cl. C22c

(11)

In page 524, column 2, line 1, against No. 142233—  
for F<sub>2c</sub> 40F read

F<sub>2a</sub> & 40 F

(12)

In page 525, column 1, line 6 against No. 142236—  
for 2-CHOKO read 2-CHOME

and

line 7, for SEUI read SEIJI

3

In the Gazette of India, Part III, Section 2 dated 11th June 1977 in page 525, Column 2 under the heading "Patent Sealed" in line 1 for "127574" read "137574".

In the Gazette of India, Part III Section 2 dated 18th June 1977 in page 549, Column 1 under the heading "Amendment proceedings under Section 57" under item 1 line 2 for "State of Belawari" read "State of Delaware".

In the Gazette of India, Part III, Section 2 dated 2nd July 1977 in page 593, Column 2 under the heading "Restoration Proceedings" under item (5) line 3 for "20th December 1975" read "20th December 1976" and under item (6) line 2 for "2nd January 1972" read "2nd January 1973",

4

In the Gazette of India, Part III, Section 2 dated the 18th June 1977, under the heading 'COMPLETE SPECIFICATIONS ACCEPTED'.

(1)

In page 534, column 1, line 7, against No. 142248—  
for 'STATE OF OHIA read 'STATE OF OHIO'

(2)

In page 535, column 2, line 2, against No. 142256—  
for B28h 11/00, B06m 7/02 read B28b 11/00, D06m  
7/02.

(3)

In page 542, column 2, line 13, against No. 142281—  
for 'CEMENT HOUS' read 'CEMENT HOUSE'

(4)

In page 542, column 2 line 13, against No. 142281—  
for '3 claims' read '2 claims'

(5)

In page 543, column 1, line 4, against No. 142284—  
for 'ANDRE VIOKAT' read 'ANDRE VIOZAT'

(6)

In page 543, column 2, line 2, against No. 142285—  
for 'H02g 3/22' read 'H03g 3/22'

(7)

In page 544, column 2, line 2, against No. 142287—  
for 'C011 3/00' read 'C10-1 3/00'

and in line 6,

for 'PULIMAN' read 'PULLMAN'

(8)

In page 548, column 1, line 2, against No. 142297—  
for '1/24' read '1/34'

and in line 13,

for 'Patent office, Calcutta' read 'Patent Office Delhi Branch'

5

In the Gazette of India, Part III Section 2, dated the 25th June 1977, under the heading "COMPLETE SPECIFICATIONS ACCEPTED".

(1)

In page 563, column 2, line 3 against No. 142326—  
for 'C10H' read 'C10m'

AND

line 8, for 'OHIO 441117' read 'OHIO 44117'

(2)

In page 565, column 1, line 2, against No. 142335—  
for 'M05c' read 'H05c'

(3)

In page 567, column 1, line 8, against No. 142342—  
for '13936/Cal/74' read '1936/Cal/74'

(4)

In page 569, column 1, line 9, against No. 142352—  
for filed January 1975 read filed January 22, 1975.

(5)

In page 569, column 1, line 2, against No. 142353—  
for 'C04b 3510' read 'C04b 35/10'

(6)

In page 570, column 1, line 1, against No. 142358--  
for '92D-J' read '92D & J'

(7)

In page 572, column 1, under the heading 'PRINTED SPECIFICATION PUBLISHED'

In group 1

for '127977' read '127997'

AND

for '131073' read '131072'

**APPLICATION FOR PATENTS FILED AT THE  
(HEAD OFFICE)**

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

4th August, 1977

1197/Cal/77. V. F. Gusev, G. N. Ivanov, V. Y. Kontarev, G. I. Krengev, V. Y. Kremlev, M. Z. Shagivalcev, J. I. Schetinin and A. U. Yarvakhametov. Cell of uniform matrix structure.

1198/Cal/77. Warner Lambert Company. Process for the preparation of 4-hydroxy-3-(5-methyl-3-isoxazolylcarbamoyl)-2-methyl-2H-1, 2-benzothiazine 1, 1-dioxide. [Divisional date March 30, 1976].

1199/Cal/77. Warner-Lambert Company. Process for the preparation of 4-hydroxy-3-(5-methyl-3-isoxazolylcarbamoyl)-2-methyl-2H-1, 2-benzothiazine 1, 1-dioxide. [Divisional date March 30, 1976].

1200/Cal/77. Warner-Lambert Company. Process for the preparation of 4-hydroxy-3-(5-methyl-3-isoxazolylcarbamoyl)-2-methyl-2H-1, 2-benzothiazine 1, 1-dioxide. [Divisional date March 30, 1976].

1201/Cal/77. Warner-Lambert Company. Process for the preparation of 4-hydroxy-3-(5-methyl-3-isoxazolylcarbamoyl)-2-methyl-2H-1, 2-benzothiazine 1, 1-dioxide. [Divisional date March 30, 1976].

1202/Cal/77. Warner-Lambert Company. Process for the preparation of 4-hydroxy-3-(5-methyl-3-isoxazolylcarbamoyl)-2-methyl-2H-1, 2-benzothiazine 1, 1-dioxide. [Divisional date March 30, 1976].

1203/Cal/77. BOC Limited. Underwater coupling : Integral shims. (August 12, 1976).

1204/Cal/77. SKF Kugellagerfabriken GMBH. Improvements in or relating to spindle for spinning and twisting machines.

1205/Cal/77. Siemens Aktiengesellschaft. Improvements in or relating to satellite communications transmission systems. (May 25, 1977).

1206/Cal/77. Nitto Boseki Co., Ltd. Method and apparatus for manufacturing glass fibers using deflectable air curtain.

1207/Cal/77. Nitto Boseki Co., Ltd. Method and apparatus for draw forming glass fibers.

1208/Cal/77. Tavkozlesi Kutato Intezet. Microwave band-pass filter built in waveguide.

1209/Cal/77. Egyesult Izzolampa ES Villamossagi Reszvenytarsasag. Closing of electric discharge tubes.

5th August, 1977

1210/Cal/77. B. Moreni. Knitting method and double-cylinder knitting machine.

1211/Cal/77. Knorr-Bremse GMBH. Control valve for compressed-air brakes, especially for rail vehicles.

1212/Cal/77. Union Carbide Corporation. Process for upgrading iron ore pellets.

1213/Cal/77. Union Carbide Corporation. Process for upgrading iron ore pellets.

1214/Cal/77. Union Carbide Corporation. Process for upgrading iron ore pellets.

1215/Cal/77. The Dow Chemical Company. Coal recovery system from mine tailings.

1216/Cal/77. Maschinenfabrik Rieter A.G. Tangential belt drive for spinning, twisting or false-twisting machines. (September 7, 1976).

6th August, 1977

1217/Cal/77. D. P. Chowdhary. Improved candle stand.

1218/Cal/77. M. Singh. Insulator against cathodic leakage from under-ground pipe lines.

1219/Cal/77. Ruti Machinery Works Ltd. Shuttle.

1220/Cal/77. Girling Limited. Improvements in self-engineering disc brakes. (August 19, 1976).

1221/Cal/77. Ultra Centrifuge Nederland N. V. Footstep bearing and method for manufacturing such a bearing.

1222/Cal/77. Spring Chemicals Limited. Treatment of aqueous glyoxylic acid solutions.

1223/Cal/77. Montedison S.p.A. and Mitsui Petrochemical Industries, Ltd. Catalyst components useful to polymerize alpha-olefins and catalysts obtained therefrom.

1224/Cal/77. J. S. Baranik, V. Y. Yakovlev and M. I. Bessonov. A. C. switching device.

8th August, 1977

1225/Cal/77. Metallgesellschaft A.G. Direct-reduction process carried out in a rotary kiln.

1226/Cal/77. Metallgesellschaft A. G. Process of calcining limestone in a rotary kiln.

1227/Cal/77. USS Engineers and Consultants, Inc. A single piece annular nozzle to prevent alumina build up during continuous casting of alkilled steel.

1228/Cal/77. Miles Laboratories, Inc. System for evenly applying liquid to a surface.

1229/Cal/77. Southwark Thameside Limited and The Coca-Cola Company. Improvements in or relating to tea. (August 27, 1976).

1230/Cal/77. Allegheny Ludlum Industries, Inc. Method of obtaining a profile indicative of the quality of the coil throughout the entire length, and flux inducing and pick-up device therefor.

1231/Cal/77. Maschinenfabrik Rieter A.G. False twist device. (September 1, 1976).

1232/Cal/77. The Standard Oil Company. Process for the preparation of unsaturated acids by catalytic oxidation. [Divisional date November 2, 1974].

9th August, 1977

1233/Cal/77. Johnson & Johnson. Pressure-sensitive adhesive tape.

1234/Cal/77. Sigma-Tau Industrie Farmaceutiche Riunite S.p.A. N-6-Chloronicotinoyl-D, L-Homocysteine Thiolactone.

1235/Cal/77. Plessey Handel Und Investments AG. Improvements in or relating to roller pumps. (September 17, 1976).

1236/Cal/77. Carrier Corporation. Heat pump system.

1237/Cal/77. Smith Kline & French Laboratories Limited. New polymorph. (September 21, 1976).

1238/Cal/77. Ashland Oil, Inc. Apparatus for producing carbon black.

10th August, 1977

1239/Cal/77. Kenrich Petrochemicals, Inc. A process for forming a surface-active composition. [Divisional date March 19, 1975].

1240/Cal/77. Kharkovsky Politekhnichesky Institut Imeni V. I. Lenina, Institut Chernoi Metallurgii and Krivorozhsky Zavod "Krivorozhstal" Imeni V. I. Lenina. Protective coating for ingot molds and cores.

1241/Cal/77. Hajtomuvek ES Festoberendzesek Gyara. Coating apparatus.

1242/Cal/77. Sumitomo Chemical Company, Limited. Oxy-indole compound.

#### ALTERATION OF DATE

142929. } 1957/Cal/75. } Ante-dated 5th February, 1969.

142942. } 111/Cal/76. } Ante-dated 26th April, 1973.

142947. } 2155/Cal/76. } Ante-dated 6th April, 1974.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents on any of the applications concerned, may at any time within four months of the date of this issue or with in such further period not exceeding one month applied for on form 14 further period not exceeding one month applied for on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to India Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depôt, 8 Kiran Shankar Roy Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of drawings, if any can be supplied by the Patent office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 72C & 131C. 142901

Int. Cl.-F42b 39/00.

#### IMPROVEMENTS IN OR RELATING TO DETONATOR SHELLS.

*Applicant* : IDL CHEMICALS LIMITED, SANAT-NAGAR (I.E.), P.O. HYDURABAD-500 018, ANDHRA PRADESH, INDIA.

*Inventors* : COODLY PUTTASAstry RAMASWAMY, ABBURT SHANKAR RAO AND SHOLINGHUR PATTABIRAMAN.

Application No. 105/Mas/75 filed July 14, 1975.

Addition to No. 1140/72.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 5 Claims. No drawings

A method of manufacture of detonator shells comprising the steps of forming deep-drawing quality steel sheets into cups; annealing the said cups; coating the said cups with a protective layer or layers of zinc and characterised by providing a final flash of copper thereon by electroplating before deep-drawing the said cups into detonator shells of the required sizes, for improving the deep-drawing characteristics of steel and for identifying the said shells from the known aluminium detonator shells.

CLASS 107G.

142902

Int. Cl.-F02m 25/02, F02b 13/10, 27/06.

#### A MECHANISM FOR ECONOMISING THE FUEL CONSUMPTION IN AN INTERNAL COMBUSTION ENGINE.

*Applicant & Inventor* : GO'VINDARAJ KRISHNAN, R.S. NO. 135/1, JAGANNATHA NAGAR, ARUMBakkAM, MADRAS-600029, TAMIL NADU, INDIA.

Application No. 115/Mas/75 filed August 8, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 3 Claims

A mechanism for economising the fuel consumption in an internal combustion engine, comprising a steam generator located around the exhaust pipe of the engine, the said generator comprising an outer insulated casing enclosing a brass sheet casing in which a plurality of concentric copper coil is placed one above the other, a water inlet connected to a water tank, an outlet connected to the carburetor, and an exhaust gas exhauster comprising a venturi shaped outer casing enclosing therein an outlet of the exhaust pipe, so as to create suction for drawing out the exhaust gas from the engine.

CLASS 107G & 175H.

142903

Int. Cl.-F02f 3/00.

#### IMPROVEMENTS IN OR RELATING TO PISTONS FOR INTERNAL COMBUSTION ENGINES.

*Applicant* : KIRLOSKAR OIL ENGINES LIMITED, AT LAXMANRAO KIRLOSKAR ROAD, POONA-411003, STATE OF MAHARASHTRA, INDIA.

*Inventor* : SURENDRA BALKRISHNA CHANDORKAR.

Application No. 322/Bom/75 filed November 17, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 2 Claims

A piston for an internal combustion engine having a tubular body with crown, ringzone and skirt in respective order, characterized in that the skirt of the piston below the ring zone has two opposing identical windows, and in that the piston-pin bosses are supported in the ceiling of the crown of the piston by a pair of struts and in that the bores in the piston-pin bosses are in alignment with and opening just behind the said windows.

CLASS 83B<sub>3</sub> & B<sub>4</sub>.

142904

Int. Cl.-A28i 1/08.

#### PROCESS OF OBTAINING COCONUT HONEY.

*Applicant* : NAMBIAR CONSULTANTS PRIVATE LIMITED, OF 3/2B, COLLEGE ROAD, MADRAS-6, TAMIL NADU, INDIA.

*Inventor* : THENISSERI VEETIL PADMANABHAN NAMBIAR.

Application No. 103/Mas/76 filed June 5, 1976

Division of Application No. 17/Mas/76 filed January 30, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 3 Claims. No drawings

A process for preparing coconut honey from the water present in coconut kernel comprising evaporating to dryness under vacuum the coconut water before fermentation thereof sets in and blending the thick syrupy product so obtained with sucrose in the form of 30% aqueous syrup.

CLASS 129G. 142905  
Int. Cl.-B23k 9/00, 35/30.

METHOD FOR WELDING CAST IRON PARTS WITH A SINGLE PLASMA ARC.

*Applicant*: CENTRE DE RECHERCHES DE PONT-A-MOUSS ON MAIDIERES, 54 PONT-A-MOUSS ON (FRANCE).

*Inventors*: PIERRE JOSEPH BOUVARD AND RENE PARADIS.

Application No. 2543/Cal/74 filed November 18, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 23 Claims

A single plasma arc welding method comprising juxtaposing cast iron parts to be welded together and passing a single plasma arc stream in the region of juxtaposition while simultaneously supplying an addition product to said region, wherein, there is employed as addition product a product such as herein described comprising iron and/or nickel.

CLASS 172D. 142906  
Int. Cl.-D01h 5/74.

A SHAFT COUPLING, IN PARTICULAR FOR BOTTOM ROLLS IN SPINNING MACHINES.

*Applicant*: INDUSTRIEWERK SCHAEFFLER OHG OF POSTFACH 1220, 8522 HERZOGENAURACH, WEST GERMANY.

*Inventors*: GEORG SCHAEFFLER.

Application No. 1297/Cal/75 filed July 2, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 3 Claims

A shaft coupling, in particular for bottom rolls in spinning machines, in which one shaft is provided with an extension of a reduced diameter on its end which engages in a longitudinal bore in the end of the other shaft, in which the connection of the two shafts in the zone of this longitudinal bore is effected by a screw-thread and in which the inner track of a roller bearing is located between the two shafts on the extension of the one shaft, against the end faces of which the end faces of the shafts are firmly abutted, characterised by the fact that the inner track has a bore with a cambered contour in such a way that in the assembled state its longitudinal axis can deviate slightly from the longitudinal axis of the shaft.

CLASS 91 & 118B. 142907  
Int. Cl.-G05d 13/00.

PRIME MOVER SPEED CONTROL SYSTEM.

*Applicant*: GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY, NEW YORK, UNITED STATES OF AMERICA

*Inventor*: ANTHONY JAMES ROSSI.

Application No. 1540/Cal/75 filed August 5, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 9 Claims

A speed control system for a fluid-driven prime mover, the prime mover having inlet valve means controlling the fluid flow into the prime mover, the inlet valve means actuated according to an output signal from the control system, the control system comprising

means providing a variable first electrical signal comprising a digital pulse train having a frequency proportional to the desired speed of the prime mover;

means providing a second electrical signal comprising a digital pulse train having a frequency proportional to the actual speed of the prime mover; and,

means comparing the first and second electrical signals to derive a phase error signal based on the relative position difference between like transitions of the respective first and second digital pulse trains, the phase error signal being the output signal for controlling the inlet valve means and said prime mover speed.

CLASS 186A. 142908  
Int. Cl.-H03h 7/12.

MICRO-WAVE BAND-PASS FILTER WITH ATTENUATION POLES.

*Applicant*: TAVKOZLESI KUTATO INTEZET, OF GABOR ARON UT 65, 1026 BUDAPEST, HUNGARY.

*Inventors*: DR. GYORGY REITER, GEZA HAMMER, FERENC RAKOSI, LIPOT RONASZEKI AND LASZLO KAJDI.

Application No. 1690/Cal/75 filed September 2, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 3 Claims

Micro-wave band-pass filter formed by cavity resonators coupled to each other through holes, whereby among the cavity resonators of the filter there is at least one cylindrical cavity resonator having a rectangular cross-section, coupled through the coupling holes on the base-and coverplate, furthermore it has at least three rods /1, 2, 3/ fixed to the inner sidewalls of the cavity resonator, characterized in that the three rods /1, 2, 3/ are reaching into the inside of the cavity resonator that way, that the first rod /1/ and the second rod /2/ are located in the first half of the cavity resonator, which is divided into halves by the plane, being parallel with the narrower sidewalls, whereas the third rod /3/ is located in the second half of the cavity resonator and the longitudinal axis of the first rod /1/, made of metal and being in a metallic connection with one of the narrower sidewalls of the cavity resonator, is perpendicular to the narrower sidewalls, while the longitudinal axes of the second rod /2/ and the third rod /3/, made of metal, or a dielectric medium or of the combination of said materials, are parallel with the narrower sidewalls, furthermore the minimal distance between the rods /1, 2, 3/ reaching into the cavity resonator and the surfaces of the coupling holes is longer than one quarter of the distance between the baseplate and the coverplate of the cavity resonator.

CLASS 65A. 142909  
Int. Cl.-H01l 9/00.

A SIGNAL SMOOTHING DEVICE FOR SMOOTHING DISTURBANCES IN THE WAVE FORM OF AN ELECTRICAL SIGNAL.

*Applicant*: SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, GERMANY (WEST).

*Inventors*: HERBERT POPPINGER AND LUDWIG SCHICK.

Application No. 2067/Cal/75 filed October 28, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 11 Claims

A signal smoothing device for smoothing disturbances in the waveform of an electrical signal, the signal smoothing device comprising an amplifier having an input for receiving the waveform to be smoothed; as integrator which has an input coupled to an output of the amplifier and which integrator also has an output which is coupled to said input of the amplifier thereby providing a feedback path; and means limiting the input signal of the integrator to predetermined values, the output of the integrator being an output for the smoothed version of said signal waveform.

CLASS 89.

142910

Int. Cl.-G01I 1/04.

## IMPROVEMENTS IN OR RELATING TO DYNAMOMETERS.

*Applicant & Inventor*: JAGAT SETH, 2481, CHIPPWARA KALAN (NEAR JAMA MASJID), DELHI, INDIA.

Application No. 120/Cal/76 filed January 22, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 6 Claims

An improved type of tubular or sleeve shaped dynamometer comprising spring discs stacked one above the other, a spindle comprising coaxially, the top end of said spindle projecting above the discs is a worked portion carrying two rotatable graduated dials one fixed to the bush and the second dial freely mounted on bush, the said bush having internal threading matching with the work threading characterized in that the second dial rotates along with the first during pulling or tensioning operation but can be held at the end of rotation by means of a spring load locking pin while the first dial comes back to its original position after release, when pressed or pulled against its spring pressure the said locking pin frees the second dial to return to its original position.

CLASS 48A.

142911

Int. Cl.-H01b 9/00.

## A TELECOMMUNICATION OR POWER CABLE.

*Applicant & Inventor*: PAUL GREGOR, OF 42, OBERHAUSEN 11, EVERLOHSTR. 8, WEST GERMANY AND DALJIT SINGH PARMAR, OF 433 MULHEIM/RUHR 13, NACHBARSWEG 6, WEST GERMANY

Application No. 486/Cal/76 filed March 19, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A telecommunication or power cable with a cable core consisting of a plurality of cores or stranding elements, a cable sheath covering the cable core, characterized in that continuously running tension proof elements made of, such as, fiber glass threads or yarns or synthetic fibres, are provided in the longitudinal interstices of the stranding elements.

CLASS 27-I.

142912

Int. Cl.-E04c 2/00.

## PRE-CAST BUILDING PANEL AND METHOD OF MANUFACTURING THE SAME.

*Applicant & Inventor*: EDWARD BRYAN SMALL, OF CLEAVESTY LODGE, EAST KESWICK, NR. LEEDS, YORKSHIRE, ENGLAND.

Application No. 493/Cal/75 filed March 13, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A method of manufacturing a pre-cast concrete panel comprising the following steps :—

- (a) a reinforcing sheet of hardboard or the like is soaked in water;
- (b) it is supported horizontally in a mould;
- (c) the hardboard or the like is covered with a thin skin of concrete whilst the hardboard or the like is still wet;
- (d) a cavity in the mould extending peripherally of the hardboard or the like is filled with concrete, before or after applying the concrete skin to the hardboard so that hardboard edge regions become embedded in the concrete; and

(e) the concrete and hardboard or the like are caused or allowed to dry sufficiently to enable the panel to be removed from the mould.

CLASS 85F.

142913

Int. Cl.-F23h 7/08, 17/12.

## IMPROVEMENTS RELATING TO GRATE ASSEMBLY FOR A BOILER.

*Applicant*: PARKINS ON COWAN GWB LIMITED, OF BURTON WORKS, DUDLEY, WEST MIDLANDS, ENGLAND.*Inventor*: BRIAN HARDING.

Application No. 684/Cal/75 filed April 4, 1975.

Convention date April 11, 1974/(16133/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims

A grate assembly for a boiler comprising a fire bed supporting means including a first support member having a plurality of apertures extending therethrough and a second support member, said members being mounted for mutual relative movement between a first position in which the apertures in the first member are obturated by the second member, a second position in which the apertures are not obturated by the second member and a drive means for causing said relative movement between said first and second positions at a speed to permit passage of ash through the apertures whilst continuing to support a fire bed and one of the support members being provided with air feed passageways whereby air may be fed to a fire bed supported on said means.

CLASS 127-I.

142914

Int. Cl. F16d 3/10, 3/44.

## COUPLING ADAPTED TO CONNECT RADIALLY OFFSET SHAFTS.

*Applicant & Inventor*: ILIE CHIVARI, OF 4680 WANNE-EICKEL, BERLINER STRASSE 1, WEST GERMANY.

Application No. 954/Cal/75 filed May 13, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 32 Claims

A coupling comprising a first main coupling member defining a first axis, a second main coupling member defining a second axis, intermediate coupling member means, and connecting means interconnecting the intermediate coupling member means and said main coupling members to permit said second axis to be radially offset with respect to said first axis, the improvement comprising :

said intermediate coupling member means comprising two intermediate coupling members rotatable relative to each other about a third axis;

said connecting means comprising links connecting each of intermediate coupling members with each of said main coupling members.

CLASS 50-D &amp; F.

142915

Int. Cl. F25d 39/00.

## REFRIGERATION CONDENSER UNIT.

*Applicant*: CARRIER CORPORATION, AT SYRACUSE, NEW YORK, UNITED STATES OF AMERICA.*Inventors*: WALTER HUSSEIN SIMMONS & SALEH HEGLER ALMILLI.

Application No. 822/Cal/74 filed April 11, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A refrigeration condenser unit comprising a housing, an opening in the housing for discharging air from within the housing to the ambient surroundings; a grille mounted on the housing over the opening; a fan disposed in the housing for blowing air through the opening; a motor for rotating the fan, said motor being mounted on the grille and having a rotatable shaft, the fan being attached to and rotatable by the shaft, and a protective cover attached to the grille opposite the motor to prevent foreign articles from entering the motor.

CLASS 63A. 142916

Int. Cl. H02k 21/00.

## ELECTRICAL SYNCHRONOUS MACHINES.

*Applicant* : EDA (OVERSEAS) LIMITED, OF 6, COURT ROW, ST. PETER PORT, GUERNSEY.

*Inventor* : ROMUALD ZDZISLAW RUSTEKI.

Application No. 1321/Cal/74 filed June 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 22 Claims

An electrical synchronous machine comprising a rotor having a plurality of field coils of alternating polarities arranged on core elements of magnetic material and disposed around the axis of rotation of the rotor to produce a magnetic field extending away from the core elements and axially of the rotor, and a stator having a plurality of windings arranged on an annular core of a magnetic material and disposed around an axis of the stator so that parts of the windings lie adjacent a surface of the core, the rotor and stator being positioned so that the rotor and the stator core are substantially coaxial and so that the rotor core elements confront said surface of the stator core.

CLASS 134A & D. 142917

Int. Cl. B601 15/00.

## CONTROL CIRCUITS FOR ELECTRICALLY DRIVEN VEHICLES.

*Applicant* : JOSEPH LUCAS (INDUSTRIES) LIMITED, OF GREAT KING STREET, BIRMINGHAM, ENGLAND.

*Inventor* : MAURICE JAMES WRIGHT.

Application No. 1353/Cal/74 filed June 19, 1974.

Convention date June 30, 1973(31302/73), (31304/73) & (31305/73). U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

An electrically driven vehicle having a traction motor and a control circuit therefor, said control circuit comprising the combination of a plurality of contactors having contacts associated with the motor and being selectively actuatable to connect the motor in a plurality of different operating modes, switch means for selecting actuation of said contactors, and an interlock circuit comprising a self-hold switch device actuatable by each contactor and a further switch device, actuatable by current sensing means sensitive to the motor current, connected in series with a device for actuating each contactor, said further switch device operating to prevent each contactor from being de-actuated following operation of said switch means to select a change of mode of operation of the motor, unless the motor current is less than a predetermined level.

CLASS 134A & D. 142918

Int. Cl. B601 15/00.

## CONTROL CIRCUITS FOR ELECTRICALLY DRIVEN VEHICLES.

*Applicant* : JOSEPH LUCAS (INDUSTRIES) LIMITED, OF GREAT KING STREET, BIRMINGHAM, ENGLAND.

*Inventor* : MAURICE JAMES WRIGHT.

Application No. 1376/Cal/74 filed June 21, 1974.

Convention date June 30, 1973(31306/73) & (31307/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A control circuit for an electrically driven vehicle, comprising a traction motor for driving the vehicle, a regulator in circuit with the motor armature for controlling the armature current, switch means having forward and reverse positions in which the motor operates to drive the vehicle forwardly and rearwardly respectively, and an off position, the switch means also controlling the power supply to the circuit and so serving to de-energise the circuit when in its off position, delay means being provided for maintaining energisation of the circuit for a period of time when the switch means is moved to the off position.

CLASS 68A. 142919

Int. Cl. H02j 7/00.

## AUTOMATIC ELECTRIC BATTERY CHARGING APPARATUS.

*Applicant* : CHLORIDE LEGG LIMITED, OF MERRI-DALE STREET, WOLVERHAMPTON, STAFFORDSHIRE, ENGLAND.

*Inventors* : DENNIS ALBERT CLAYTON & GEORGE WILLIAM FOSTER.

Application No. 1533/Cal/74 filed July 9, 1974.

Convention date July 9, 1973(32572/73) U.K.  
Addition to No. 125534.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 23 Claims

Automatic charging apparatus for charging discharged electric batteries, including means for establishing a reference voltage, a comparator for comparing the battery voltage with the reference voltage, and means for automatically adjusting the charging current during at least a phase of the charge to bring the battery voltage closer to the reference voltage, and means for progressively increasing the reference voltage, in which the means for increasing the reference voltage comprise a pulse generator, a binary counter for counting the pulses, and a digital to analogue converter for converting the count of the counter into an analogue signal representing the reference voltage.

CLASS 129-Q. 142920

Int. Cl. B23k 17/00.

## IMPROVEMENTS RELATING TO WELDING.

*Applicant* & *Inventor* : YULL BROWN, OF 182 AUBURN ROAD, AUBURN, IN THE STATE OF NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA.

Application No. 1672/Cal/74 filed July 26, 1974.

Convention date August 3, 1973(PB4341/73) Australia.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 27 Claims

A method of generating hydrogen and oxygen comprising passing an electric current in series between a plurality of pairs of electrodes formed in one or more electrolytic cells containing an aqueous electrolyte, allowing hydrogen and oxygen liberated by the electric current to mix within the cell(s) collecting the mixture and passing the mixture so collected through a safety device, which safety device incorporates means for regulating the electric current passing between said electrodes in accordance with the level of electrolyte and/or gas pressure contained in the electrolytic cell(s).

CLASS 70-B.	142921	CLASS 154-D & E	142924
Int. Cl. B01k 3/00.		Int. Cl. B41b 23/00.	
<b>ELECTROLYTIC CELLS AND SEALS THEREFOR</b>			
<i>Applicant : FRIEDRICH UHDE CMBH., OF 46 DORTMUND, DEGGINGSTRASSE, 10-12, WEST GERMANY.</i>			
<i>Inventor : LUCIANO MOSE.</i>			
Application No. 1677/Cal/74 filed July 26, 1974.			
Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.			
<b>7 Claims</b>			
An electrolytic cell having a cover with an aperture and an anode having a stem passing through the aperture, there being a seal between the cover and the stem the seal comprising an outer annular plug portion that contacts the inner wall defining the aperture, an inner annular sealing portion that contacts the anode stem and a flexible diaphragm between the inner and outer portions.			
CLASS 130-I.	142922		
Int. Cl. C22b 13/04; C01g 21/00.			
<b>TREATMENT OF LEAD SULPHIDE BEARING MATERIAL.</b>			
<i>Applicant : SHERRITT GORDON MINES LIMITED, AT 2800 COMMFRCE COURT WEST, TORONTO, ONTARIO, CANADA.</i>			
<i>Inventors : DAVID JOHN IVOR EVANS &amp; IAN MARTIN MASTERS.</i>			
Application No. 2123/Cal/74 filed September 24, 1974.			
Convention date October 2, 1973(182, 426/73) Canada.			
Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.			
<b>9 Claims. No drawings</b>			
A method of treating lead sulphide-bearing material to convert lead values to soluble lead acetate with concurrent conversion of sulphur values associated with said lead sulphide to elemental form which method comprises the steps of : dispersing said finely divided lead sulphide-bearing material in an aqueous medium to form a slurry; providing in said slurry free acetate ions and adjusting the pH of the slurry to below about 5.1; reacting said slurry at a temperature of between about 60°C and about 120°C with a free oxygen-bearing gas under a partial pressure of oxygen of between about 20 and about 60 p.s.i.; and continuing said reaction to oxidize said lead sulphide and to convert it to soluble lead acetate with concurrent production of insoluble elemental sulphur.			
CLASS 144-B.	142923		
Int. Cl. B44d 1/00; 5/00; C09k 3/00.			
<b>IMPROVEMENTS IN OR RELATING TO PROCESSES FOR PAINTING COATING OF RUSTED STEEL STRUCTURES.</b>			
<i>Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.</i>			
<i>Inventors : SUBBIAH GURUVIAH, MEYYAPPA SUNDARAM, CHAKKARVARTHY RAJAGOPAL, &amp; KUMMATTITHIDAL SANTHANAM RAJAGOPALAN.</i>			
Application No. 2150/Cal/74 filed September 26, 1974.			
Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Delhi Branch.			
<b>9 Claims. No drawings</b>			
An improved process for painting/coating a rusted steel structure comprises hand cleaning the rusted steel surface, applying thereto a basic coating composition containing dissolved in water, heavy metal carbonates, non-catalytic acids such as hemic described a metal powder and phosphoric acid, drying the same and painting the thus treated steel structure with a desired paint or coating material.			
CLASS 154-D & E	142924	ROTARY DISC PRINTER.	
<i>Applicant : INTERNATIONAL BUSINESS MACHINES CORPORATION, OF ARMONK, NEW YORK 10504, UNITED STATES OF AMERICA.</i>			
<i>Inventors : ROBERT FRANK KUHN, THODORE FRANCIS LYONS, &amp; HARRY WESLEY RAIDER.</i>			
Application No. 2872/Cal/74 filed December 28, 1974.			
Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.			
<b>10 Claims</b>			
A rotary disc printer comprising a carrier having drive means operable to move said carrier past a plurality of print positions along the print line of a document upon which a printing operation is to be performed,			
a rotatable print wheel mounted on said carrier having an array of type characters of one group thereon around one portion of the periphery of the wheel and another array of type characters of a different group around another portion of the periphery of the print wheel,			
a print hammer carried by said carrier operable to impact said type characters and print in said print positions on said document, and			
means to detect when the required printing changes from one selected print group to the other selected print group and to inhibit printing from two timewise adjacent groups, and			
means to cause said hammer to be in the appropriate column position when said selected print group is in print position in front of the hammer.			
CLASS 51-C & 165A.	142925		
Int. Cl. B26d 1/02.			
<b>A STITCH CUTTING TOOL FOR USE IN TAILORING FACTORIES AND THE LIKE ESTABLISHMENTS AND DOMESTIC APPLICATION.</b>			
<i>Application &amp; Inventor : VINESH MOHAN GOYAL, OF 3, BHAGAT NIWAS, BHAGAT MARG, 'C' SCHEME, JAIPUR, RAJASTHAN, INDIA.</i>			
Application No. 35/Cal/75 filed January 7, 1975.			
Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Delhi Branch.			
<b>3 Claims</b>			
A stitch-cutting tool for use in tailoring factories and like establishments and domestic application which ensures quick and safe cutting of thread-stitches as well as stitches of harder and coarser materials like leather, rubber, canvas, nylon, plastic or like synthetic compositions characterised in that it comprises a small metallic flat rod having at one end a fork-shaped knife-edge, one arm of which consists of a long protruding needle-like pointer and other arm of which is in the form of a knurled hook with knife edge on its inner side.			
CLASS 66-D.	142926		
Int. Cl. H01k 3/00.			
<b>A MECHANISM FOR LOADING LAMP CAPS INTO THE CELLS OF AN ENDLESS CHAIN CONVEYOR.</b>			
<i>Applicant &amp; Inventor : GENNADY IVANOVICH GRISHAEV OF PROSPEKT 50, LET OKTYABRYA, 103, KV. 15, SARANSK, MASSR, U.S.S.R. &amp; NIKOLAI IVANOVICH ISYGANKIN OF ULITSA ANNY LUSS, 2, KV. 25, SARANSK, MASSR, U.S.S.R.</i>			
Application No. 315/Cal/75 filed February 19, 1975.			
Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.			

## 6 Claims

A mechanism for loading lamp caps into the cells of an endless chain conveyor, comprising : a stationary guide arranged to accommodate lamp caps in a line, one behind the other; a rotor adapted to be driven from said chain conveyor and designed to carry lamp caps to the chain conveyor cells; radial slots provided in said rotor for the purpose of accommodating lamp caps being carried to the chain conveyor cells; a stationary plate located underneath the rotor to serve as a bottom cover of the rotor slots in the portion of the rotor travel which carries lamp caps to the chain conveyor cells; a shoulder provided on said stationary plate and arranged to extend over the side of the rotor so as to prevent lamp caps from dropping out of the rotor slots; a spring-loaded retainer provided between the rotor and the stationary guide for the purpose of retaining lamp caps in said guide, said retainer being adapted to be positively moved out of the retaining position at periodic intervals, when a rotor slot arrives at said guide; a means for positively moving lamp caps from said stationary guide into the rotor slots; cams provided on said rotor for the purpose of periodically acting upon said retainer in order to move it out of the retaining position and thereby permit lamp caps to be positively moved into the rotor slots by said means.

CLASS 91 &amp; 153.

142927

Int. Cl.-G05d 13/00.

## A ROTARY TOOL SUCH AS A SURFACE GRINDING TOOL INCLUDING A ROTARY AIR MOTOR.

*Applicant* : CHICAGO PNEUMATIC TOOL COMPANY, OF 6 EAST 44TH STREET, NEW YORK, N.Y.-10017, UNITED STATES OF AMERICA.

*Inventor* : RAYMOND JOHN SCHAEUDLER.

Application No. 1254/Cal/75 filed June 25, 1975.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A rotary tool including a rotary air motor having a rotor shaft, an inlet port for admitting operating air to the motor, and an overspeed safety mechanism which includes a ball confined in a hole formed in the periphery of a body arranged co-axially with the shaft for rotation therewith, the ball being movable out of the hole to close the control inlet port only when the ball is subjected to a predetermined centrifugal force as a result of the motor exceeding a predetermined speed to shut off the supply of air to the motor when the motor speed exceeds a predetermined speed.

CLASS 172D.

142928

Int. Cl.-D01h 5/24.

## TEXTILE FIBRES DRAFTING ASSEMBLY.

*Applicant* : SOCIETE ALSACIENNE DE CONSTRUCTIONS MECANIQUES DE MULHOUSE, OF 1 RUE DE LA FONDERIE, 68054 MULHOUSE CEDEX, FRANCE.

*Inventor* : ROGER JEAN CHARLES GAUVAIN.

Application No. 1291/Cal/75 filed July 1, 1975.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

Textile fibres drafting assembly comprising a pair of feed rollers, a pair of drafting rollers, at least one roller between said feed and drafting roller pairs, for controlling the fibres and of the type known as "porcupine", i.e., provided with teeth, means for rotating said drafting rollers in directions to draw therebetween a lap of fibres fed between said feed rollers, and means for rotating said porcupine in the sense of progress of said lap of fibres drawn by said drafting roller and at a peripheral speed less than the linear speed of said lap of fibres when so drawn, said teeth having front and back faces and inclined rearwardly relative to the sense of rotation of said porcupine and to the direction of forward motion of the lap of fibres characterized in that at least the active back face of each of said teeth of said porcupine presents a concave profile in the form of an involute of a circle.

237 GI/77

CLASS 32F<sub>2</sub>b

142929

Int. Cl.-C07d 99/24.

PROCESS OF PREPARING  $\Delta^2$  and  $\Delta^3$ -CEPHALOSPORIN COMPOUNDS.

*Applicant* : ELI LILLY AND COMPANY, AT 740 SOUTH ALABAMA STREET, INDIANAPOLIS, STATE OF INDIANA, UNITED STATES OF AMERICA.

*Inventors* : JOHN ALAN WEBBER AND EARLE MARVIN VAN HEYNINGEN.

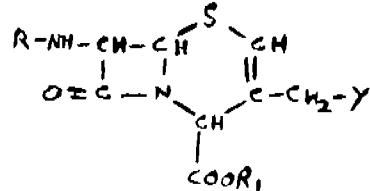
Application No. 1957/Cal/75 filed October 9, 1975.

Division of Application No. 119706 filed February 5, 1969.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

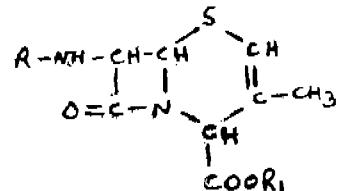
## 20 Claims

A process for preparing cephalosporin compound of formula III.



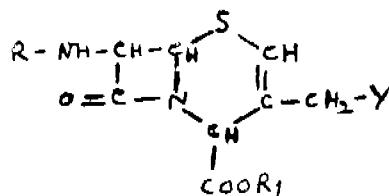
which comprises

(a) reacting N-bromosuccinimide with a cephalosporin compound of the formula II.



wherein R is an aminoprotecting group, and R' is the residue of an ester group in a substantially anhydrous organic solvent medium at a temperature of from about 40°C to about 100°C, and

(b) reacting the reaction product of step (a) with a nucleophilic reagent which provides a negatively charged group or which is a neutral molecule bearing an unshared pair of electrons, and which engages in a nucleophilic substitution reaction with the 3-bromomethyl group of the product of step (a) to from as produce a compound of the formula III.



wherein R and R' are as defined above, and Y is the nucleophile.

CLASS 32F<sub>2</sub> & 55D<sub>4</sub>.

142930

Int. Cl.-A01n 9/16, 143/78, C07c 143/40.

## PROCESS FOR THE PREPARATION OF 2-(TRIFLUOROMETHYL) METHANES ULFONANILIDE SUBSTITUTED IN THE P-POSITION AND DERIVATIVES THEREOF.

*Applicant* : MINNESOTA MINING AND MANUFACTURING COMPANY, OF 3M CENTER, SAINT PAUL, MINNESOTA 55101, UNITED STATES OF AMERICA.

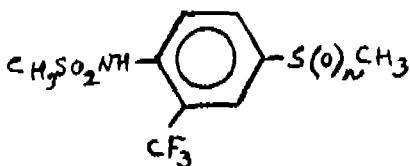
*Inventors* : TOMAS LEE FRIDINGER, GEORGE GOWER INNES MOORE AND LARRY REINO LAPPI.

Application No. 2171/Cal/75 filed November 13, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A process for the preparation of para substituted 2-(trifluoromethyl)-methanesulfonanilides represented by formula I.



wherein n is zero, 1 or 2 which process comprises the steps of

- (1) heating 5-chloro-2-nitrobenzotrifluoride and methanethiol in a suitable inert solvent such as herein described in the presence of base and isolating 2-nitro-5-methylthio-benzotrifluoride from the reaction mixture.
- (2) catalytically reducing the nitro group of 2-nitro-5-methylthiobenzotrifluoride to form 4-methylthio-2-trifluoromethyl and isolating the latter from the reaction mixture.
- (3) reacting 4-methylthio-2-trifluoromethyl-aniline with methanesulfonyl chloride to form N-methylsulfonyl-4-methylthio-2-trifluoromethylmethanesulfonanilide followed by partial hydrolysis with base to form 4-methylthio-2-trifluoromethylmethanesulfonanilide, and
- (4) if desired, oxidizing in a known manner such as herein described 4-methylthio-2-trifluoromethylmethanesulfonanilide to 4-methylsulfonyl-2-trifluoromethylmethanesulfonanilide.

CLASS 32E &amp; 40F.

142931

Int. Cl.-C08f 1/02, C08f 1/98.

AN AUTOCLAVE AND A METHOD FOR THE BULK PREPARATION OF POLYMERS OR COPOLYMERS OF VINYL CHLORIDE.

*Applicant*: RHOME-POULENC INDUSTRIES, OF 22 AVENUE MONTAIGNE-75-PARIS (8EME), FRANCE.

*Inventors*: MICHEL AZEMAR AND LUCIEN VIECCA.

Application No. 2294/Cal/75 filed December 2, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims

An autoclave for the bulk preparation of polymers and copolymers of vinyl chloride, provided with a rotary stirrer comprising one or more blades rotatable about a substantially horizontal axis characterised in that the said axis being eccentric to a horizontal axis of symmetry of the autoclave so that the periphery of the blade passes close to the portion of the wall of the autoclave defined by its lower generatrix.

CLASS 32F.

142932

Int. Cl.-C07c 145/00.

A PROCESS FOR THE PRODUCTION OF SULPHENAMIDES.

*Applicant*: BAYER AKTIENGESELLSCHAFT, OF LEVERKUSEN, FEDERAL REPUBLIC OF GERMANY.

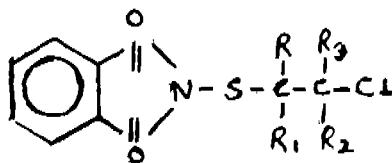
*Inventors*: PAUL UHRHAN, ERNST ROOS, MANFRED ABELE, RUDIGER SCHUBART AND THEO KEMPERMANN.

Application No. 2340/Cal/75 filed December 15, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A process for the production of sulphenamides of the general formula I.



wherein R, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> are the same or different and represent H, a straight-chain or branched-chain alkyl radical with 1 to 24 carbon atoms, a cycloalkyl radical which contains from 4 to 10 ring carbon atoms and which may be substituted by straight-chain or branched alkyl radicals with 1 to 12 carbon atoms or by aryl radicals containing 6 or 10 carbon atoms; any aryl radical with 6 or 10 ring carbon atoms which may be substituted by alkyl radicals with 1 to 6 carbon atoms or by chlorine or bromine, cyano or nitro groups or aromatic acyl radicals with 7 or 11 carbon atoms; a nitrile group, chlorine or bromine or aliphatic acyl radicals with 1 to 10 carbon atoms or aromatic acyl radicals with 7 or 11 carbon atoms, a carboxylic acid ester group with 1 to 4 carbon atoms in the alcohol component, an alkoxy radical with 1 to 6 carbon atoms; acyloxy radicals whose aliphatic carboxylic acid component contains 1 to 10 carbon atoms or whose aromatic carboxylic acid component contains 7 or 11 carbon atoms, or a heterocyclic radical with 5 to 10 ring carbon atoms which, in addition to carbon, may also contain 1 to 2 oxygen, nitrogen or sulphur atoms and which may optionally be substituted by alkyl radicals with 1 to 6 carbon atoms or aryl radicals with 6 or 10 carbon atoms, comprises adding N-chlorothiophthalimide with olefins such as herein described.

CLASS 25C &amp; 35E.

142933

Int. Cl.-C04b 35/48, 35/12.

PROCESS FOR THE MANUFACTURE OF CORROSION RESISTANT ZIRCON REFRactories.

*Applicant*: ORISSA CEMENT LIMITED, OF RE GANGPUR, DIST. SUNDARGARH, ORISSA, INDIA.

*Inventors*: DR. SHYAM LAXMAN KOLHATKAR AND BRUNDABAN CHANDRA PATNAIK.

Application No. 2378/Cal/75 filed December 24, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims. No drawings

A process for the manufacture of corrosion resistant zircon refractories comprising adding 0.1 to 6% by wt. of chromic oxide or a Cr<sub>2</sub>O<sub>3</sub>-yielding compound which will yield 0.1 to 6% Cr<sub>2</sub>O<sub>3</sub> to zircon aggregates consisting of zircon sand, zircon flour and/or zircon grog, intimately mixing the ingredients with requisite quantity of water, moulding the wet mass into desired shapes and firing the shaped masses at a temperature not less than 1300°C, preferably at above 1400°C.

CLASS 172E.

142934

Int. Cl.-B65h 54/22.

PRODUCTION OF WASTE WRAPS AND THREAD RESERVE WINDINGS ON A BOBBIN TUBE.

*Applicant*: MASCHINENFABRIK RIETER A.G., OF WINTERTHUR, SWITZERLAND.

*Inventors*: JAKOB FLUCK, FELIX GRAF AND ALBERT RUEGG.

Application No. 298/Cal/76 filed February 19, 1976.

Convention date April 17, 1975/(15851/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

An apparatus for producing waste wraps and thread reserve windings on a bobbin tube which is placed on a rotatable bobbin chuck and at an end portion of which a thread catching zone is provided, the said apparatus comprising a first lever for producing the waste wraps which lever is pivotable with a delay, and a second lever for producing the thread reserve wraps which lever is pivotable and is axially offset with respect to the first lever as seen from the end portion, both levers being arranged in such manner that they can be consecutively pivoted away by the thread caught by the rotating package tube and with different delays while wraps are wound beginning at the end portion the thread tending along a thread guide edge towards a central position.

CLASS 40F. 142935

Int. Cl.-B01j 7/00, 9/00.

**TUBULAR REACTOR FOR PERFORMING ENDO-THERMAL GAS REACTIONS**

*Applicant* : DR. C. OTTO & COMP. GMBH., OF BOCHUM, WEST GERMANY.

*Inventors* : EGON HAESE AND ALBERT KELLERMANN.

Application No. 743/Cal/76 filed April 28, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

## 8 Claims

Tubular reactor for performing endothermal gas reactions such as cracking hydrocarbons with water vapour in which pressurized gas, more particularly a rare gas, at a temperature of 600 to 1000°C is used for covering the endothermal requirements, said gas being heated in a nuclear reactor to the said temperature at a pressure of 10 to 100 bar the said tubular reactor comprising a pressure shell with an internally disposed insulation in which vertically disposed jacketed tubes are inserted comprising of a reaction tube, where appropriate filled with a catalyst, and a sheathing tube which surrounds the reaction tube while forming an annular gap through which the heat-delivering gas flows upwardly, characterized in that the sheathing tubes are arranged in the form of a bundle in which at least the top portion of the tubes are in mutual contact and the imaginary connecting line of the centres of three tubes in contact form an equilateral triangle and that at six places, uniformly distributed over the circumference, the top ends of the sheathing tubes are provided with longitudinal slots into which have practically the same length as the slots, the said connecting elements are fixedly connected to the sheathing tubes by means of welding and the reaction tubes are lying against the top surfaces of the said connecting elements.

CLASS 88D. 142936

Int. Cl.-C10j 3/46, 3/48.

**A DEVICE FOR GASIFYING FUELS IN FINE-GRAIN FORM.**

*Applicant* : DR. C. OTTO & COMP. GMBH., OF BOCHUM, WEST GERMANY.

*Inventors* : SIEGFRIED POHL, DR. PAUL GERNHARDT, WILHELM DANGUILLIER AND WOLFGANG GRAMS.

Application No. 979/Cal/76 filed June 7, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

## 6 Claims

A device for gasifying, more particularly pressure gasifying, fuel in fine-grain form, in which fuel in suspension in pressurised skips, as well as the gasifying agent, is introduced into the gasifier by means of a vehicle gas, characterised in that load cells are provided to determine the contents of the pressurised skips devices for measuring the pressure-cell indications at predetermined time intervals are provided; and controllers which process such as hereinbefore described the

information provided by the measuring devices about the amount of solid fuel removed from the skips and supplied to the gasifier per unit of time act on a final control element which determines such as hereinbefore described the quantity of a vehicle gas serving to transfer fuel from a skip to the gasifier, the controller adjusting the quantity of fuel introduced per unit of time in accordance with a predetermined set or reference value.

CLASS 48C.

142937

Int. Cl.-B08g 30/00.

**A HIGH VOLTAGE ELECTRICAL DEVICE INCORPORATING EPOXY ANHYDRIDE PREPREGS.**

*Applicant* : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 1522, UNITED STATES OF AMERICA.

*Inventors* : JAMES DAVID BLACKHALL SMITH AND ROBER NEWELL KAUFFMAN.

Application No. 1256/Cal/74 filed June 10, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A high voltage electrical device which comprises a plurality of high voltage coil conductors arranged in rows one upon the other and each bounded by a layer of prepreg bonding said conductors together to form a coil conductor assembly, and in impregnatable insulation material enclosing said assembly and impregnated with a cured styrene-epoxy-anhydride resin bonded to said prepreg at the periphery of said assembly, said prepreg comprising a fibrous mat-material containing a cured epoxy-anhydride resin composed of an epoxy resin having an epoxy equivalent weight of from 360 to 400 and at least one sterically hindered anhydride which is substantially unreactive with said epoxy resin at ambient temperatures and is capable of providing a partial cure of said epoxy resin at a temperature of from 80 to 115°C, said epoxy resin and said sterically hindered anhydride components comprising from 25 to 400% by weight of said fibrous mat material.

CLASS 39L.

142938

Int. Cl.-C01f 7/02.

**IMPROVEMENTS IN OR RELATING TO THE MANUFACTURE OF 1 $\mu$  SIZE  $\alpha$  ALUMINIUM OXIDE OF ELECTRONIC GRADE FROM ALUMINIUM FOIL.**

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventor* : GOVIND PRASAD.

Application No. 302/Cal/75 filed February 18, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims. No drawings

A process for the manufacture of 1 $\mu$  size  $\alpha$  aluminium oxide of electronic grade from aluminium foil by (a) reacting amalgamated aluminium foil with distilled water thereby getting 1 $\mu$  size aluminium hydroxide, and (b) filtering and drying of the aluminium hydroxide at 150°C, (c) igniting the precipitate at 1200°C to produce  $\alpha$  aluminium oxide followed by (d) washing with distilled water and ignition at 1200°C to produce purified  $\alpha$  aluminium oxide characterised in that prior to step (a), (i) aluminium foil is amalgamated in methanolic solution of mercuric chloride, and (ii) the amalgamated foil is washed with 2% aqueous solution of ethanolamine or related compound (primary amine like pyridine, aniline or the like) and finally with distilled water.

CLASS 5D &amp; 40F.

142939

Int. Cl.-C12b 1/00.

## CHANNEL CULTURE DEVICE.

*Applicant & Inventor* : GEORGE GREENBAUM, OF 790 BOYLSTON STREET, BOSTON, MASSACHUSETTS U.S.A.

Application No. 497/Cal/75 filed March 13, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

36 Claims

A channel culture apparatus for plants, comprising :

At least one channel module comprising a plurality of wall-forming elements terminating at upper ends thereof in a plurality of laterally spaced-apart parallel horizontal edge surface portions, and terminating at lower ends thereof in a plurality of bottom portions each connecting an adjacent pair of said horizontal edge surface portions to define a series of parallel upwardly-concave channels extending the length of the module and adapted to receive plant culture material; said module being constructed and arranged to be joined in end-to-end abutting relation to additional modules of like construction to extend said channels to any desired length.

CLASS 160D.

142940

Int. Cl.-B60g 7/00, 25/00.

## IMPROVED SUSPENSION FOR VEHICLES.

*Applicant* : BOOMERANG ENGINEERING (1971) PTY. LTD., OF 14-16 WHEELER STREET, BELMONT, IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH.

*Inventor* : SANT'E VITAL'E DE FILIPPIJS.

Application No. 1302/Cal/75 filed July 3, 1975.

Convention date July 10, 1974/(71069/74) AUSTRALIA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

A suspension for multi axled vehicles wherein each axle is mounted on an arm pivotally mounted on the chassis of the vehicle for rotation about a substantially horizontal axis, transverse to the longitudinal axis of the vehicle, the mounting of the axle being spaced longitudinally on the arm from the pivot point, a first guide member is mounted on the chassis adjacent the pivot point of said arm, a second guide member is mounted on said arm spaced longitudinally from the pivot point and a flexible member passing over one of said guide members and under the other, each end of said flexible member being anchored to the chassis of the vehicle.

CLASS 127D.

142941

Int. Cl.-F16h 21/16.

## AN IMPROVED DRIVE ARRANGEMENT FOR RECIPROCATING PUMP.

*Applicant & Inventor* : (MRS.) MUKULIKA MITTRA, C/O N. N. MITRA, STAFF QRS. NO. JR-43, P.O. RENU-SAGAR, DIST. MIRzapur 231218, U.P., INDIA.

Application No. 1414/Cal/75 filed July 19, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims

An improved drive arrangement for reciprocating pump comprising a fan rotor adapted to be operated electrically or mechanically, the rotor shaft being extended rearwardly, a worm gear being mounted on the said extended shaft, a worm wheel being vertically mounted and adapted to mesh with the said worm gear in order to provide a reduced speed from the rotor, a crank being concentrically mounted on the shaft of the worm wheel, the piston rod of the reciprocating pump being mounted on the other end of the said crank, the other end of the pump cylinder being pivotally mounted on two screws and at the said other end a nylon valve assem-

bly incorporated with outlet and inlet non-return valve is fixed.

CLASS 32F<sub>1</sub> & F<sub>2</sub>b & 15D<sub>2</sub>.  
Int. Cl.-C07d 55/50.

## PROCESS FOR PREPARATION OF NOVEL 6-AMINO-S-TRIAZINE DIONES.

*Applicant* : E. I. DU PONT DE MEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, U.S.A.

*Inventors* : KANG LIN, JOEL BENJAMIN WOMMACK, JR. AND JULIUS JAKOB FUCHS.

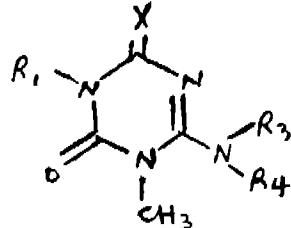
Application No. 111/Cal/76 filed January 20, 1976.

Division of Application No. 980/Cal/73 filed April 26, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

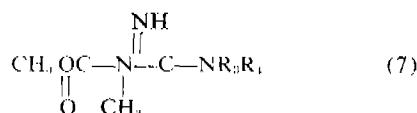
2 Claims

A process for preparation of compounds of the formula shown in Fig. 17.



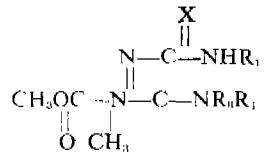
which comprises the following steps in sequence :

- reacting a methylating agent of the formula CH<sub>3</sub>Z with methoxy-carbonyl-cynamide to form N-methoxy carbonyl-N-methylcynamide;
- reacting the product of step A with an amine of the formula R<sub>2</sub>R<sub>1</sub>NH to form a compound of the formula :



in an aqueous solution using a hydrochloride or sulfate salt of the amine R<sub>2</sub>R<sub>1</sub>NH, whereby a solution of the corresponding salt of the product is formed and, thereon, the reaction medium is treated with alkali to liberate the free bases of the unreacted R<sub>2</sub>R<sub>1</sub>NH and the product, the resulting solution is immediately subjected to distillation at a temperature below 50°C to remove R<sub>2</sub>R<sub>1</sub>NH and the residual solution is immediately treated with sulfuric or hydrochloric acid to again form the corresponding salt of the product;

- reacting the product of step B with an isocyanate or isothio-cyanate of the formula R<sub>1</sub>NCX to form a compound of the formula :



- adding to the product of step C 0.1—5.0 mole percent of a base M'OR and maintaining the reaction mass at 0—120°C for 0.1 to 2.0 hours to cyclize and form the desired product in a solvent selected from benzene, chlorobenzene, toluene and xylene in the presence of 1 to 2.5 moles of anhydrous R<sub>2</sub>R<sub>1</sub>NH;

wherein, in the above formulae :

R<sub>1</sub> is C<sub>1</sub>—C<sub>6</sub> alkyl, C<sub>7</sub>—C<sub>10</sub> cycloalkyl, norbornyl, methylcyclohexyl, methyl, cyclopentyl, phenyl, or cylophenyl;

R<sub>2</sub> is hydrogen or methyl;

R<sub>3</sub> is C<sub>1</sub>—C<sub>6</sub> alkyl;

X is oxygen or sulfur; provided that when X is sulfur, R<sub>3</sub> is methyl;

Z is odide or -O-SO<sub>2</sub>-OCH<sub>3</sub>:

M' is alkali metal; and

R is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl.

CLASS 68E.  
Int. Cl.-G05f 1/00.

142943

## A VOLTAGE REGULATOR.

*Applicant & Inventor* : CHANDRA KANT DWIVEDI,  
OF 17, CAMAC STREET, CALCUTTA-17, STATE OF  
WEST BENGAL, INDIA.

Application No. 1929/Cal/76 filed October 25, 1976.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A voltage regulator for use with vehicles comprising a current sensor adapted to be connected to the negative terminal of a battery, the armature terminal of a generator being connected to said current sensor through a first rectifier, a second rectifier connected to said sensor circuit, said second rectifier being connected to a first input terminal of a control circuit, the output terminal of said control circuit adapted to be connected to a field terminal of said generator.

CLASS 32-E & 152E.  
Int. Cl. C08g 9/10; 9/30.

142944

A PROCESS FOR THE PREPARATION OF UREA  
FORMALDEHYDE OR MELAMINE FORMALDEHYDE  
MOULDING POWDERS.

*Applicant* : NUCHEM PLASTICS LIMITED, OF 20/6,  
MILESTONE, MATHURA ROAD, FARIDABAD, HARYANA-121002, INDIA.

*Inventors* : DR. AJIT SINGH, (2) OM PRAKASH DUA  
& ASHOK KUMAR.

Application No. 2033/Cal/74 filed September 11, 1974.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Delhi Branch.

## 5 Claims. No drawings

Improved process for the preparation of urea formaldehyde or melamine formaldehyde moulding powder characterized in that during the step of mixing the reaction mixture or resin with a filler, a catalyst consisting of zinc sulphite and a cocatalyst consisting of dimethyloxalate, phthalic anhydride maleic anhydride, acid salts of urea and melamine, thiocyanates of urea and melamine, ethylene sulphite, oxanilic acids, dibenzylloxalate acetamide, chloroacetanilide and cynuric acid is added.

CLASS 131B.  
Int. Cl. E21c 1/12.

142945

A HYDRAULIC OPERATED, ROCK DRILLING  
APPARATUS.

*Applicant* : LINDEN-ALIMAK AB, OF 931 03 SKEL-  
LEFTEA, SWEDEN.

*Inventor* : SVEN GRANHOLM.

Application No. 534/Cal/75 filed March 18, 1975.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

A rock drilling apparatus, comprising a machine housing, means for mounting a drill in said housing, a hydraulically operated rotary motor for rotating said drill, a percussion motor with an impact piston hydraulically operable to perform a power stroke to and a return stroke from said drill for transferring impact energy thereto, said piston defining together with said machine housing first and second pressure chambers for receiving pressure liquid to move said piston to and from the drill, respectively, said rotary motor and said percussion motor having separate hydraulic circuits.

including each a high pressure side and a low pressure side, and a pressure liquid distributing valve located in the hydraulic circuit of the percussion motor for alternately connecting at least one of said pressure chambers to the high pressure said and low pressure side of the hydraulic circuit, characterized by a control valve for controlling the amount of driving energy supplied with the pressure liquid to the impact piston via the distributing valve in response to the pressure at the high pressure side of the hydraulic circuit of the rotary motor.

CLASS 29-B.

142946

Int. Cl. G01g 13/00.

DISCRETE DIGITAL WEIGHING APPARATUS WITH  
COMPUTATION OF COST OF WEIGHED PRODUCT.

*Applicant* : NAUCHNO-ISSL EDOVATELSKY I KONS-  
TRUKTOISKY INSTITUTE ISPYTATELNYKH MASHIN,  
PRIBOROV I SREDSTV IZMERENIYA MASS, OF KHOLO-  
DILNY PEREULOK, 1, MOSCOW, USSR.

*Inventors* : ALEXANDR MIKHAILOVICH DEMEN-  
TIEV, (2) MIKHAIL VLADIMIROVICH LOBKO, (3)  
ALEXEI PAVLOVICH MALKOV, (4) VLADIMIR KON-  
STANTINOVICH MALTSEV, & JURY SEMENOVICH  
SUCHKOV.

Application No. 162/Cal/76 filed January 29, 1976.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A discrete digital weighing apparatus with computation of the cost of the weighed product wherein a force-frequency transducer is electrically connected to a count input of a computing unit comprising a multiplier and intended for calculating the mass and the cost, in which digit outputs are connected to appropriate inputs of a price, mass and cost display and recording unit of the computing unit, data digit inputs are connected to appropriate outputs of a price input unit, and control inputs of the computing unit are electrically connected to circuits of a weighing apparatus control unit connected to a control input of the display and recording unit, and the weighing apparatus comprises also a tare compensating unit adapted for subtraction of the tare mass when calculating the cost of the weighed product and for initial zero adjustment which contains a tare counter with a count input thereof electrically connected through AND gates to a frequency output of a force-frequency transducer and with digit outputs thereof coupled to appropriate inputs of a computing unit which operates in a cyclic mode set by a control unit with the logic circuits thereof connected to a signal output of the computing unit for timing the tare mass subtraction and weighed product cost calculation operations in each measurement cycle.

CLASS 131B.

142947

Int. Cl. E21c 13/00.

## PERCUSSIVE AIRHAMMER.

*Applicant* : BAKERDRILL, INC., OF S.C. 57, 1 MILE  
SOUTH OF 1-85, SPARTANBURG, SOUTH CAROLINA  
29301, UNITED STATES OF AMERICA. (POST OFFICE  
BOX 6130 SPARTANBURG, S.C. 29301).

*Inventors* : ALFRED RONALD CURINGTON & THEODORE JAMES ROSCOE JR.

Application No. 2155/Cal/76 filed December 3, 1974.

Division of Application No. 784/Cal/74 filed April 6,  
1974.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims

An airhammer for use in applying successive percussive blows to a percussive drill bit for taking core sample material from the bottom end of a bore hole while drilling the bore hole, said airhammer including a housing, an airhammer piston reciprocable in said housing, valve means for alternately directing air to opposite ends of said air hammer piston and exhausting air therefrom, a core tube extending

longitudinally and centrally through said housing and said airhammer piston, first means for conducting exhaust air from the interior of said housing to the exterior of said housing, and second means separate from said first means for conducting a portion of the air supplied to said airhammer directly to the interior of said core tube to convey core material upwardly therethrough.

CLASS 33-C.  
Int. Cl. B22c 1/18; 1/26.

142948

PROCESS FOR AIR SETTING OF SAND FOR USE IN THE FORMATION OF MOULDS CASTING.

*Applicant & Inventors:* PALLIVARAMANGALAM RAJAGOPALACHARI NARASIMHAN, OF CHITTARANJAN LOCOMOTIVE WORKS, CHITTARANJAN, WEST BENGAL, INDIA AND PHANI BHUSAN GOSWAMI, STEEL FOUNDRY, CHITTARANJAN LOCOMOTIVE WORKS, CHITTARANJAN, WEST BENGAL, INDIA.

Application No. 320/Cal/77 filed March 4, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims. No drawings

Process for air setting of sand for use in the formation of moulds and cores for casting comprising :

- (i) calcining milled bauxite with alkali oxide such as calcium oxide at a temperature of from 1400 to 1600°C to obtain powdered product essentially consisting of
  - (a) alkali aluminate such as tricalcium aluminate;
  - (b) alkali silicate such as tri-calcium silicate; and
  - (c) di-calcium silicate;
- (ii) mixing the obtained product of step (i) with sand in a ratio from 2 to 10% by weight of sand and milling the same;
- (iii) mixing the obtained product of step (ii) with sucrose in a ratio of from 1 to 8% by weight of sand;
- (iv) milling the obtained product of step (iii) and finally obtaining a set sand which is to be used for formation of moulds and cores for castings.

CLASS 32E &amp; 104F.

142949

Int. Cl. C08c 9/04; 9/14; 11/44; 13/10;

C08d 9/08; 9/12

PROCESS FOR PREPARING BROMOBUTYL RUBBER COMPOSITION OF IMPROVED GREEN STRENGTH.

*Applicant:* POLYSAR LIMITED, OF SARNIA, ONTARIO, CANADA.

*Inventor:* ERNEST JACK BUCKLER & GEORGE FENIAK.

Application No. 2398/Cal/74 filed November 2, 1974.

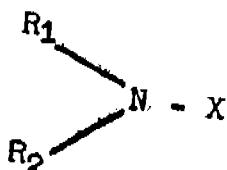
Convention date November 8, 1973(185,311/73) Canada.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

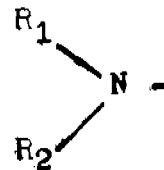
A process of preparing bromobutyl rubber compositions of improved green strength, which comprises reacting bromobutyl rubber with an amine compound, said amine compound being selected from

A Compounds of the structure as shown in Fig. 1.



of the accompanying drawings where R<sub>1</sub> and R<sub>2</sub> are methyl or ethyl groups and where X is one of

- (a) an alkyl group having 5 to 30 carbon atoms;
- (b) a C<sub>6</sub> or C<sub>7</sub> alkylene group attached to benzene or an alkyl substituted benzene;
- (c) an alkylene group having 4 to 30 carbon atoms and having attached thereto at least one other group shown in Fig. II.



and

(d) a nitrogen-carbon containing group having alkylene groups connected by single nitrogen atoms and containing at least one other group shown in Fig. II, having a total of from 4 to 10 carbon atoms in said alkylene groups; and from 1 to 4 nitrogen atoms connecting said alkylene groups;

B. Piperidine, or piperazine, substituted with at least one methyl or ethyl groups at the heterocyclic nitrogen atoms;

C. tri-ethylene diamine; and

D. compounds of structure R-NH<sub>2</sub> where R is one of

- (a) an aromatic or substituted aromatic group having 1 to 3 aromatic rings; and
- (b) an alkyl group having 6 to 30 carbon atoms; the amount of said amine compound being from 1/100th to 1/8th of a chemical equivalent of amine per chemical equivalent of bromine in the bromobutyl rubber.

CLASS 27-A &amp; F &amp; G.

142950

Int. Cl. E04c 3/02.

A CERTAIN STANDARDIZED MODULE FOR A STRUCTURAL ASSEMBLY.

*Applicant:* BHAGAT ENGINEERING CO. PVT. LTD., OF II/M/56 LAJPAT NAGAR, NEW DELHI-110024, INDIA.

*Inventor:* ANIRUDHA SHIVPRASAD BHAGAT.

Application No. 2772/Cal/74 filed December 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims

A module for use in a structural assembly and made of any suitable structural material such as ferrous metals and alloys, non ferrous alloys, fibreglass or plastics said module being generally of a H or I section and having at least one unishear connector provided in a vertical relation thereto at or adjacent one of the ends and at least one unishear connector provided in a horizontal relationship thereto, the height of said module being smaller at said end.

CLASS 27-A &amp; F. &amp; G.

142951

Int. Cl. E04c 3/02.

A CROSS GIRDER INTERMEDIATE MODULE FOR USE IN A STRUCTURAL ASSEMBLY.

*Applicant:* BHAGAT ENGINEERING CO. PVT. LTD. OF II/M/56 LAJPAT NAGAR, NEW DELHI-110024, INDIA.

*Inventor:* ANIRUDHA SHIVPRASAD BHAGAT.

Application No. 2775/Cal/74 filed December 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 6 Claims

A cross girder intermediate module for use in a structural assembly and made of any suitable structural material such as ferrous metals and alloys, non ferrous alloys, fibreglass or plastics consisting of an upper and lower horizontal member spaced from each other and connected by means of end vertical members and an intermediate vertical member, a unishear connector provided at a opposition ends of each of upper and lower members, said intermediate vertical member extending beyond said lower horizontal member, the lower end of said intermediate member being connected to said lower horizontal member through inclined members.

CLASS 27-A & F. & G. 142952  
Int. Cl. E04c 3/00 3/02.

## A MODULE FOR USE IN A STRUCTURAL ASSEMBLY.

*Applicant* : BHAGAT ENGINEERING CO. PVT. LTD., OF II/M/56 LAJPAT NAGAR, NEW DELHI-110024, INDIA.

*Inventor* : ANIRUDHA SHIVPRASAD BHAGAT.

Application No. 2777/Cal/74 filed December 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 6 Claims

A module for use in a structural assembly and made of any suitable structural material such as ferrous metals and alloys, non-ferrous alloys, fibreglass or plastics, said module consisting of a pair of diagonal members intersecting each other and having at least one unishear connector provided at the end of each of said members, the neutral axis of each diagonal member coinciding with the centre of its respective connectors.

CLASS 27A & F & G. 142953  
Int. Cl. E04c 3/02.

## A MODULE FOR USE IN A STRUCTURAL ASSEMBLY.

*Applicant* : BHAGAT ENGINEERING CO. PVT. LTD., OF II/M/56 LAJPAT NAGAR, NEW DELHI-110024, INDIA.

*Inventor* : ANIRUDHA SHIVPRASAD BHAGAT.

Application No. 2778/Cal/74 filed December 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 7 Claims

A module for use in a structural assembly and made of any suitable structural material such as ferrous metals and alloys, non-ferrous alloys, fibre glass or plastics, said module consisting of two parallel arms spaced from each other and having side members connected thereto to form a geometrical section, each of the parallel arms and side members having at each end at least one unishear connector connected thereto, the neutral axis of each arm and side member coinciding with the centre of its respective connectors.

CLASS 27-A & F & G. 142954  
Int. Cl. E04c 3/02.

## A MODULE FOR STRUCTURAL ASSEMBLY.

*Applicant* : BHAGAT ENGINEERING CO. PVT. LTD., OF II/M/56 LAJPAT NAGAR, NEW DELHI-110024, INDIA.

*Inventor* : ANIRUDHA SHIVPRASAD BHAGAT.

Application No. 2779/Cal/74 filed December 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 7 Claims

A module for use in a structural assembly and made of any suitable structural material such as ferrous metals and alloys, non-ferrous alloys, fibre-glass or plastics, consisting

of at least a pair of arms having a pair of intersecting diagonal member therebetween, at least one unishear connector provided at each end of each arm and wherein the neutral axis of said arms and the diagonal members coincide with the centre of its respective connectors.

CLASS 39-O.

142955

Int. Cl. C01b 33/32.

## PROCESS FOR THE MANUFACTURE OF POTASSIUM SILICATE BY ION-EXCHANGE METHOD.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : GOPAL TRIMBAK GADRE & USHA KUMAR TIPNIS.

Application No. 749/Cal/75 filed April 14, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims. No drawings

A process for the manufacture of potassium silicate by ion exchange method comprises reacting potassium form of a strong acid cation exchange resin with sodium silicate solution of density 16°-18°Be.

CLASS 32E.

142956

Int. Cl. C08g 9/30; 37/24.

## PROCESS FOR THE PRODUCTION OF MELAMINE RESIN CONDENSATION PRODUCTS.

*Applicant* : CASELLA FARBEWERKE MA INKUR AKTIENGESELLSCHAFT, OF 6 FRANKFURT (MAIN)-FECHENHEIM, WEST GERMANY, 526, HANAUER LANDSTR.

*Inventors* : HANS GATTNER, & JOACHIM RIBKA.

Application No. 1085/Cal/75 filed May 29, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims. No drawings

A process for the production of a melamine resin condensation product, which has a solubility of 0 to 2 percent by weight in water, of 0 to 15 percent by weight in xylene and of 0 to 18 percent by weight in acetone, wherein methylolmelamine having 3 to 6 methylol groups, wherein 2 to 6 hydroxy groups thereof may be substituted by alkoxy groups having 1 to 2 C-atoms, is pre-condensed by heating it at a temperature of 120 to 160°C for 0.5 to 6 minutes in a self-cleaning screw kneader, optionally in the presence of upto 50% by weight of a modifying agent such as herein before described and of upto 32% by weight of a dyestuff such as hereinbefore described, and is subsequently condensed further by a temperature of 120 to 200°C for 5 to 120 minutes without friction.

CLASS 32C & F. & 55E.

142957

Int. Cl.-A61k 25/00, 9/00, 27/12.

## PROCESS FOR THE PREPARATION OF POLYMERS CONTAINING PROSTAGLANDIN RADICALS.

*Applicant & Inventor* : PAOLO FERRUTI, OF V. LE CASSIODORO 24, MILAN, ITALY, AND RODOLFO PAOLETTI, OF V. LE REGINA MARGHERITA 43, MILAN, ITALY.

Application No. 1967/Cal/75 filed October 10, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims. No drawings

Process for the preparation of non-toxic polymers having a molecular weight between 1000 and 1500,000, containing prostaglandin radicals which are gradually hydrolyzed in a biological system while setting free prostaglandins and non-toxic polymeric residues, wherein acrylic monomers, are

homopolymerized or copolymerized with different vinylic monomers while activated in a manner such as herein described before or after polymerization by reaction with activating compounds such as herein described and the obtained active polymer is reacted with prostaglandins either directly or after reaction with alkylene-diamines, hydroxylamines or alkylene-dihydroxy compounds.

CLASS 82 &amp; 83A.

142958

Int. Cl.-A23-I 1/325.

**AN IMPROVED PROCESS FOR THE PRODUCTION OF FISH PROTEIN CONCENTRATE FROM TRASH MARINE FISH.**

*Applicant :* COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFT MARG, NEW DELHI-1, INDIA.

*Inventors :* SUBHAS CHAND, KANAI LAL GHOSH AND SHIBANARAYAN MAHAPATRA.

Application No. 1237/Cal/76 filed February 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

**3 Claims**

An improved process for the preparation of fish protein concentrate from trash marine fish after beheading them and mincing it to a fine paste characterised in that the minced fish is directly used for solvent extraction by a three stage step counter-current solvent extraction using isopropanol as the solvent and preparing fish meal as a by product.

CLASS 32F, &amp; 83A.

142959

Int. Cl.-A23I 1/10, C01b 31/24, C07c 27/00.

**METHOD FOR EXTRACTING PHENOLS AND OLIGO-SACCHARIDES FROM VEGETABLES TISSUES.**

*Applicant :* SNAMPROGETTI S.P.A., OF CORSO VENEZIA 16, MILAN, ITALY.

*Inventors :* GIANCARLO SODINI AND MARCO CANELLA.

Application No. 310/Cal/76 filed February 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims. No drawings**

A method for extracting phenols and oligosaccharides from vegetable tissues, especially plant seed and plant-seed flours, such as sunflowerseed flour, cottonseed flour and soybean flour; comprising the step subjecting said vegetable substances to extraction with a composite polar organic solvent comprising an alcohol, a ketone and an ester in combination with an aqueous solution of an acidic electrolyte selected from the group comprising the organic acids, the inorganic acids and the acidic salts of both these acids as hereinbefore defined.

CLASS 57-D.

142960

Int. Cl. E06b 3/00; 5/00.

**IMPROVEMENTS IN OR RELATING TO DOOR CLOSURES.**

*Applicant :* MADAN ENGINEERING TOOL PRODUCTS, OF 5TH FLOOR, SURYA KIRAN BUILDING, 19 KASTURBA GANDHI MARG, NEW DELHI, INDIA.

*Inventor :* SUBHASH MANGA.

Application No. 836/Cal/76 filed May 14, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

**6 Claims**

An improved hydraulic door closure in the form of a small compact unit comprising a cylindrically shaped outer diecasted metallic body having a vertically and coaxially fixed spring operated inner piston such that each end of the spring is fixed respectively to the top and bottom ends of the said

body a fluid chamber containing a suitable high viscosity fluid surrounding the said piston, a rotatably fixed horizontal arm one end of which is fixed to the top end of the said piston through the said outer body and the other end being fixed to the door frame, a bracket attached on the side of the said outer body for enabling it to be fixed to the door, and provision of oil seals at the bottom and top ends of the said outer body characterised in that a slot is formed at the bottom of the said outer body through which a screw is passed and fixed to the lower end of the spring attachment of the inner piston in such a manner that the tension of the inner spring as well as the speed of the rotation of the door closure can be adjusted according to requirement by the simple operation of a screw driver from outside.

**PATENTS SEALED**

140090 140705 140727 140731 140733 140741 140744 140751  
140754 140755 140756 140771 140772 140774 140777 140779  
140781 140783 140789 140816 140817 140819 140822 140824

**AMENDMENT PROCEEDINGS UNDER SECTION 57**

(1)

Notice is hereby given that Mysore State Industrial Investment and Development Corporation Limited now re-named as Karnataka State Industrial Investment and Development Corporation Limited, Incorporated in India, 36, Cunningham Road, Bangalore-560 052 State of Karnataka and Dr. Krishnapillai Vishwanathan Nayer, an Indian National, 51, Indira Nagar, 1Ind Stage, Bangalore-5600038, now residing at 247, Indira Nagar, 1st Stage, Bangalore-560 038, State of Karnataka, have made an application under Section 57 of the Patents Act, 1970 for amendment of application and specification of the application for Patent No. 141563 for "Process for the manufacture of Fertiliser-Grade Potassium Sulphate". The amendments are by way of amendment of the first applicant's name from "Mysore State Industrial Investment and Development Corporation Limited" to "Karnataka State Industrial Investment and Development Corporation Limited", and change of address of the second applicant from "51, Indira Nagar, 1Ind Stage, Bangalore-560 038" to "247, Indira Nagar, 1st Stage, Bangalore-5600038". The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, 776, Triplicane High Road, Madras-600 005, on any working day during usual office hours or copies of same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendments may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office Branch, Madras. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

(2)

The amendments proposed by Maremont Corporation in respect of patent application No. 137032 as advertised in Part III, Section 2 of the Gazette of India dated the 23rd April, 1977 have been allowed.

**PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"**

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No.

Title of the invention.

79223 (20.4.72) Method of producing dibenzo [A, D] Cyclo-hepta [1, 4] dienes.

82373 (20.4.72) Process for the production of A 2-OXO-3-(N,N-disubstituted carboxamido)-1, 2, 3, 4, 6, 7-hexahydro-11B-H-Benzopyridocoline.

84235 (20.4.72) Process for producing azaphenthiiazines.

101684 (20.4.72) Process for production of new antibiotics polyoxins A and B.

112418 (20.4.72) Process for preparing 1-(3, 4, 5-trimethoxybenzyl)-6, 7-dihydroxy-1, 2, 3, 4-tetrahydroisoquinoline.

129038 (28.7.71) Process of making a stable alloy for use as anode.

No.	Title of the invention.
129288 (20.4.72)	Process for the preparation of alkyl 1, 2, 1a, 6b-tetrahydrocycloprop [b] indole-1-carboxylates and acids.
130491 (5.3.71)	Phase transfer catalysis heterogeneous reactions by quaternary salts particularly oxidation of olefins.
130698 (23.3.71)	Process of synthesizing urea.
130807 (1.4.71)	Process for preparing an emulsion.
131078 (22.4.71)	Process for preparing glycol esters from olefinically unsaturated compounds.
131536 (29.5.71)	Process and apparatus for the recovery of ammonia and carbon dioxide from the tail gas of a urea synthesis.
131545 (31.5.71)	Process for preparing glycol esters from olefinically unsaturated compounds.
131637 (8.6.71)	A process for production of sponge iron.
132034 (8.7.71)	Process for the production of photographic emulsions.
132100 (13.7.71)	Process for preparation of bromacil/diuron complex.
132466 (11.8.71)	Method of producing a sintered cobalt rare earth intermetallic product.
132491 (20.4.72)	Process for the preparation of the antibiotic MYC 8003.
133179 (8.10.71)	Method of production of cellular concrete.
133670 (18.11.71)	Process for the isomerization of glucose syrups.
133812 (20.4.72)	Process for the production of optically active substituted prostaglandin analogs.
134266 (20.4.72)	Process for the preparation of β-pyridyl carbinol nicotinoyl glycinate.
135360 (23.9.72)	An improved process for the preparation of one or more oxirane compounds.

## RENEWAL FEES PAID

83840 83918 89561 89709 90301 95370 95651 95655 95877  
 95891 101271 101416 101674 106657 106676 106698 106846  
 106965 106973 107002 107009 107065 107100 111909 112047  
 112132 112258 112259 112265 112847 117315 117589 117649  
 121427 122488 122679 122731 122843 122988 122989 123017  
 123151 123171 123199 123216 123306 123353 123354 128003  
 128017 128030 128120 128121 128122 128185 128278 128295  
 128310 128333 128493 128580 128652 128902 131230 131437  
 132117 132322 132685 132749 132757 132812 132834 132835  
 132836 132856 132873 132884 132890 132908 132928 132929  
 132935 133011 133012 133643 135463 135532 135562 135867  
 136223 136405 136461 136494 136505 136540 136653 137011  
 137073 138187 138264 138661 138935 139133 139175 139225  
 139287 139295 139390 139511 139582 139604 139786 139815  
 139921 139936 139937 139938 139939 139945 139952 139980,  
 140002 140021 140022 140030 140039 140041 140063 140070,  
 140074 140078 140096 140108 140109 140144 140148 140150  
 140203 140222 140227 140231 140232 140244 140258 140259  
 140268 140272 140307 140315 140348 140392 140404 140410,  
 140424 140425 140438 140462 140465 140468 140473 140480,  
 140500 140555 140561 140736 140743 141340.

## RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 137790 dated the 20th October 1973 made by Kanak Engineers Private Ltd. on the 9th December 1976 and notified in the Gazette of India, Part III, Section 2 dated the 22nd January, 1977 has been allowed and the said patent restored.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

- Class 1. No. 145015. Varadiah Madana Gopal, 185, 7th Cross Street, Shenoy Nagar, Madras-30, Tamilnadu State, an Indian subject. "Bicycle". December 21, 1976.
- Class 1. No. 145162. Behari Lal Aggarwal & Co., Railway Road, Tarn Taran, Distt. Amritsar (Punjab), Indian partnership concern. "Thresher" January 27, 1977.
- Class 1. No. 145207. Narendra Brothers, 21/22, Jhandasai Extension, New Delhi-110055, an Indian Partnership concern. "Pen stand with pen". February 8, 1977.
- Class 1. No. 145236. Indo National Limited, a company incorporated under the provisions of the Companies Act, 1956, of 30 General Patters Road, Madras-600 002, State of Tamil Nadu, India. "Dry cell". February 17, 1977.
- Class 1. Nos. 145327 to 145329. Kishco Cutlery Limited, a company incorporated under the provisions of Indian Companies Act, of Bharat Insurance Building, 15A, Horniman Circle, Fort, Bombay-400 001, State of Maharashtra, India. "Spoon". March 9, 1977.
- Class 1. Nos. 145372 & 145373. Ashok Hardware Industries, 4204-T1 Nagar, Delhi-110035, an Indian Sole Proprietary Concern. "Knob". March 23, 1977.
- Class 3. No. 145179. Airlite Rubber Industries, 7-T, Kattur Sadayappan Street, Periament, Madras-600 003, India, an Indian partnership firm. "Shoe sole". February 2, 1977.
- Class 3. Nos. 145229 & 145230. Nandlal & Company, F9/24, Nand-dham Industrial Estate, Marol Maroshi Road, Andheri (East), Bombay-400 091, Maharashtra, an Indian Partnership firm. "Electric buzzer". February 17, 1977.
- Class 3. No. 145231. Nandlal & Company, F9/24, Nand-dham Industrial Estate, Marol Maroshi Road, Andheri (East), Bombay-400 091, Maharashtra, an Indian Partnership firm. "Electric Extension cord box". February 17, 1977.
- Class 3. No. 145250. Surendra Kumar, an Indian National, trading as Pioneer Sales Corporation, of 34/1/B, Colootola Street, Calcutta-700073, West Bengal. "Baby soother". February 21, 1977.
- Class 3. No. 145279. Plastic Art, a sole proprietary firm, of Shivaji Service Industries Bldg., 'B', Ground Floor, Unit No. 1, 119, Taikalwadi Road, Shivaji Park, Opp. Hari Niwas, Mahim, Bombay-400 016, Maharashtra, India. "Book stand". February 25, 1977.
- Class 3. No. 145287. Ravindranath Sadanand Hate and Jayant Sadashiv Kelkar, both being Indian Citizens and both 31, Laxmi Nivas, Elphinstone Road, Bombay-400013, Maharashtra, India. "Lamp-cum-heater" February 25, 1977.
- Class 3. No. 145299. Indian Oil Corporation Limited, an Indian Company, of 1, Shakespeare Saranik, Calcutta-700016, State of West Bengal, India. "Float for wick stove". March 1, 1977.

**Class 3.** No. 145303. Swan (India) Private Limited, (a company registered under the Indian Companies Act, Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay-1, Maharashtra State, India. "Container". March 4, 1977.

**Class 3.** No. 145349. Tobu Enterprises Private Limited, 8/29, Industrial Area, Kirti Nagar, New Delhi-110015 (India), (Indian Company). "A bicycle". March 14, 1977.

**Class 3.** No. 145360. Bata India Limited, a limited company incorporated under the Indian Companies Act, at 30, Shakespeare Sarani in the town of Calcutta, West Bengal, India. "A sole for footwear". March 22, 1977.

**Class 3.** No. 145366. Nandlal & Company, F9/24, Nanddham Industrial Estate, Marol Maroshi Road, Andheri (East), Bombay-400091, Maharashtra, an Indian Partnership Firm. "Extension cord box". March 23, 1977.

**Class 3.** No. 145393. Kisan Kumar Agarwal, Indian National, of Agarwal Products, 66, Balbhat Road, Goregaon (East), Bombay-400 063, Maharashtra, India. "shower bath apparatus". March 29, 1977.

**Class 10.** No. 145305. Swastik Industries, Ram Baug, Swami Vivekanand Road, Malad (West), Bombay-

400 064, Maharashtra, an Indian Partnership firm. "Footwear". March 4, 1977.

**Class 11.** No. 145191. Kaycee Corporation, C/o. K. G. Badhani, 1st Bhajipala Lane, Bombay-400 003, Maharashtra State, an Indian Partnership Firm. "Brassier". February 7, 1977.

**COPYRIGHT EXTENDED FOR A SECOND PERIOD OF FIVE YEARS**

Design No. 139951..... Class 3.

Design No. 139952 ....., Class 10.

**COPYRIGHT EXTENDED FOR A THIRD PERIOD OF FIVE YEARS**

Design No. 130954 ....., Class 1.

Design Nos. 130958, 131018, 132480, 132481, 132482, 132483 & 132484 ....., Class 4.

Design Nos. 131019, 131020, 130959, 132485,

132486 132487, 132488 & 132489 ....., Class 10.

**S. VEDARAMAN**  
Controller-General of Patents, Designs  
and Trade Marks.